



January 23, 2009

Sent via email

Eric Johnson
U.S. Environmental Protection Agency
Region 8, 8ENF-T
999 18th Street, Suite 300
Denver, Colorado 80202-2466

RE: Progress report for December 2008 activities - Hecla Mining Company Apex Site (EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Mr. Johnson:

Per paragraph 64 of the Order, enclosed is a copy of the December 2008 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at pglader@hecla-mining.com.

Sincerely,

A handwritten signature in black ink, appearing to read "P. Glader", written over a horizontal line.

Paul L. Glader
Manager Environmental Services

Encl

Cc: HMC Legal Dept (w/o attachments)
John Jacus, Esq. (DG&S)



January 23, 2009

Sent via U.S. Mail

Glenn Rogers, Chairman.
Shivwits Band of Paiute Indian Tribe
6060 West 3650 North
Ivins, Utah 84738

John Krause
Bureau of Indian Affairs
400 North 5th Street, Floor 12
Phoenix, AZ 85004

Kelly Youngbear
BIA Southern Paiute Agency
P.O. Box 720
St. George, UT 84771

RE: Progress report for December 2008 activities - Hecla Mining Company Apex Site (EPA ID No. UT982589848, Docket No. RCRA-8-99-06)

Dear Chairman Rogers, Mr. Krause and Ms. Youngbear:

Per paragraph 64 of the Order, enclosed is a copy of the December 2008 progress report for your records.

If you have any questions please do not hesitate to call me at (208) 769-4112 or e-mail at pglader@hecla-mining.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Paul L. Glader", written over a horizontal line.

Paul L. Glader
Manager Environmental Services

End

Cc: HMC Legal Dept. (w/o attachments)
John Jacus, Esq. (DG&S) (w/o attachments)
Eric Johnson (USEPA, Region VIII) (w/o attachments)



January 23, 2009

MEMORANDUM TO: Apex File
COPIES TO: distribution
FROM: Paul Glader
SUBJECT: Progress Report No. 56 for period ending December 31, 2008; Pond 2 Final Closure - Apex Site, Washington County, Utah

Summary

The monthly visual inspection, per the long term monitoring plan, was conducted on December 20. No unusual conditions were noted.

Geotechnical Monitoring

Based on data collected through July 2008:

- 1 - Settlement rates of most monuments have decreased to zero
- 2 - Settlement of the reclaimed impoundment top surface has stabilized with only two monuments decreasing minimally over the first six months of 2008.

The October 2008 survey data analysis is being completed - no settlement changes have been noted.

Work Planned for Next Period

Visual inspection of site

Settlement monument survey - quarterly basis

Cost and Schedule

Committed costs in December 2008 were \$182. Total project to date committed is approximately \$1,289,000.

Supplemental Attachments

December 2008 site inspection report

December 2008 cost report

October 9, 2008 Surface Monument Survey - Alpha Engineering Company

Annual Site Inspection Summary Sheet - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 1 of 4 - Summary

Date: <u>12-20-08</u>			
Inspector: <u>D. Tennant</u>			
Cover System Component	Potential Problem		Limits Potentially Exceeded
Site Perimeter	Erosion or Fencing Issues		NA
Cover System (outslopes, top, rock)	Subsidence		Minor: ponding < 1" some gullying / erosion Yes <u>X</u> * No <u> </u>
			Significant: see Table 2 Yes <u> </u> * No <u>X</u>
	Embankment Slope Stability		excessive movement or surface cracks > than 1" Yes <u> </u> * No <u>X</u>
	Gullying	on top	depth > 1" Yes <u> </u> * No <u>X</u>
		at embankment crest or on outslope	depth > 2" Yes <u> </u> * No <u>X</u>
		w/in normal flow channel in diversion channel	no gullying allowed Yes <u> </u> * No <u>X</u>
		w/in diversions at toe of impoundment outslope	no gullying allowed Yes <u> </u> * No <u>X</u>
		in diversion channel at any other location	NA NA
	Erosion Protection Stability		rock subsiding or missing Yes <u> </u> * No <u>X</u>
	Seepage		no colored seepage allowed (red, blue, yellow w/ crystallization) Yes <u> </u> * No <u>X</u>
Runoff Control System	Diversion Channel		rock in place, channel not moving, fence stable Yes <u>X</u> * No <u> </u>
	Diversion Swales		rock in place, no silting in or head cutting Yes <u>X</u> * No <u> </u>
	Excessive silt build up at fence lines in diversion channel		allowed if not effecting cover system Yes <u>X</u> * No <u> </u>

* Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan
Form 2 of 4 - Site Perimeter

Inspection Date: <u>12-20-00</u>	
Inspector: <u>D. Turner</u>	
Visible Outlying Areas	
Observed Condition:	<u>All Areas look Fine</u>
Observed Damage:	<u>None</u>
May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>	
Property Boundary Fence and Gate (walk fence line)	
Observed Condition:	<u>gate and fence are up and o.k.</u>
Observed Damage:	<u>None</u>
Potential Corrective Actions:	<u>None</u>
May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>	
All Upgradient Areas (areas that drain onto property)	
Observed Condition:	<u>NO Change</u>
Observed Damage:	<u>None</u>
May require repair: Yes <input type="checkbox"/> * No <input checked="" type="checkbox"/>	

* Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

Hecla Mining Company - Long-Term Maintenance and Monitoring Plan

Form 3 of 4 - Impoundment

Inspection Date: <u>12-20-08</u>			
Inspector: <u>D. Tamm</u>			
Outslopes			
Observed Performance:	Rock Cover Subsidence:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Excessive Slope Movement (failure):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Gully Development:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Observable Leachate (colored):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Excessive Siltation (at slope toe):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u>			
Top (top surface soils)			
Observed Performance:	Cracking (>1" width):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Settlement / Evidence of Ponding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Erosion / Gullyng:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u>			
Erosion Protection Layer (rock)			
Observed Performance:	Rock Staying in Place:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Rock Subsiding:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Missing Rock:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	May require repair: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Observed Damage: <u>NONE</u>			
Potential Corrective Actions: <u>NONE</u>			

Mark all areas of concern or requiring repairs on attached site map.

Annual Site Inspection - Apex Site - Pond 2

**Hecia Mining Company - Long-Term Maintenance and Monitoring Plan
Form 4 of 4 - Diversion Channel and Swales**

Date: <u>12-20-02</u>			
Inspector: <u>D. Thomas</u>			
Diversion Channel			
Observed Performance:	Erosion Protection in place:	Yes <u>x</u> No <u> </u>	May require repair: Yes <u> </u> * No <u>✓</u>
	Normal Flow Channel in place:	Yes <u>x</u> No <u> </u>	May require repair: Yes <u> </u> * No <u>✓</u>
	Encroaching on Site Fencing:	Yes <u> </u> No <u>x</u>	May require repair: Yes <u> </u> * No <u>✓</u>
Observed Damage: <u>None</u>			
Potential Corrective Actions: <u>None</u>			
Diversion Swales			
Observed Performance:	Erosion Protection in place:	Yes <u>✓</u> No <u> </u>	May require repair: Yes <u> </u> * No <u>✓</u>
	Flow Channel Silting In:	Yes <u> </u> No <u>✓</u>	May require repair: Yes <u> </u> * No <u>✓</u>
	Head Cutting:	Yes <u> </u> No <u>✓</u>	May require repair: Yes <u> </u> * No <u>✓</u>
Observed Damage: <u>None</u>			
Potential Corrective Actions: <u>None</u>			

* Mark all areas of concern or requiring repairs on attached site map.

Activity	2004 Budget	Revised Budget May 2004	Committed Cost this Period	Cumulative Committed Cost To Date 12-31-08	Forecasted Cost To Complete	Forecasted Final Cost	Remarks on Forecast to Complete
Phases I through III (Completed February 2006)							
Phase I - Drain Excess Liquid From Tailings	189,200	72,700		67,928	0	67,928	
Phases II, IIA + IIB - Evaporate Excess Liquid	6,000	8,000		242,882	0	242,882	
Phase III - Regrading & Final Cover System	337,000	342,050		504,742	0	504,742	
Field Indirect Costs	164,500	213,568		378,517	0	378,517	Includes Jan + Feb 2006 long term monitoring costs
Hecla Costs	18,700	18,700	0	33,324	0	33,324	
Subtotal Phases I through III	715,400	655,018	0	1,227,393	0	1,227,393	
Long Term Monitoring (through FY 2010)							
Site Inspections			182	6,553	702	7,255	
Settlement Monitoring			0	6,750	3,675	10,425	
Consultant Support:							
Annual Geotechnical Engineer Inspections				2,495	18,100	20,595	Includes settlement monitoring data analysis
Vegetation Monitoring			0	0	20,000	20,000	Allowance for surveys in FY 2008 - 2010
Site Conditions Review - MEI			0	6,814	2,987	9,801	
Site Conditions Review - SVL Analytical			0	2,079		2,079	
Erosion Repair Review - MEI				2,927	573	3,500	
Revegetation Review - Bamberg					3,500	3,500	
Maintenance:							
Erosion Repair Allowance				21,941	7,500	29,441	Erosion repair conducted April 2008
Revegetation Allowance				9,912	10,000	19,912	Revegetation conducted April 2008
Hecla Project Management Costs:							
Labor			0	2,266	7,909	10,175	
Travel expenses			0	0	1,312	1,312	
Subtotal Long Term Monitoring	0	0	182	61,737	76,258	137,995	
Total Pond 2 Final Closure	715,400	655,018	182	1,289,130	76,258	1,365,388	



ALPHA ENGINEERING COMPANY

148 East Tabernacle, St. George, UT 84770 • (435) 628-6500 • Fax: (435) 628-6553

**HECLA MINING SITE
MONUMENT MONITORING
(AS-BUILD DATE: OCTOBER 9, 2008)**

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Monument #	Northing	Easting	Elevation	Remarks
#1	10121.42	10130.68	3685.57	Top alum. cap
#2	10146.05	10277.45	3685.71	Top alum. cap
#3	10092.40	10417.29	3685.91	Top alum. cap
#4	9966.72	10489.51	3685.67	Top alum. cap
#5	9865.75	10437.08	3686.43	Top alum. cap
#6	9807.90	10293.13	3686.28	Top alum. cap
#7	10013.39	10283.64	3686.86	Top alum. cap
#8	9989.98	10130.35	3685.66	Top alum. cap
#9	9862.85	10149.31	3685.60	Top alum. cap
#10	10006.04	9997.80	3678.04	Top alum. cap
#11	9964.21	10309.05	3684.54	Top alum. cap

Fw: Apex - January Report
Eric Johnson to: Amy Swanson

02/19/2009 07:11 AM

----- Forwarded by Eric Johnson/R8/USEPA/US on 02/19/2009 07:08 AM -----



Paul Glader
<pglader@hecla-mining.com>

To Eric Johnson/R8/USEPA/US@EPA

cc

02/18/2009 05:56 PM

Subject Apex - January Report



Apex Pond 2 - progress rpt complete, january 2009.pdf